

Quiz 2.10

Name _____

1. $\frac{d}{dx}(\cot x) =$

(A) $-\tan x$

(B) $-\csc^2 x$

(C) $\csc x$

(D) $\sec^2 x$

2. If $f(x) = \sec x$, then $\lim_{x \rightarrow \frac{\pi}{3}} \frac{f(x) - f\left(\frac{\pi}{3}\right)}{x - \frac{\pi}{3}}$ is

(A) 0

(B) $\sec\left(\frac{\pi}{3}\right)$

(C) $\sec\left(\frac{\pi}{3}\right) \tan\left(\frac{\pi}{3}\right)$

(D) nonexistent

3. $\frac{d}{dx}(\cos x \tan x) =$



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(A) $\sec x + \sin x \tan x$

(B) $\cos x$

(C) $-\sin x \sec^2 x$

(D) $\sin x$